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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/050,536	01/18/2002	Yasuhiro Nonobe	218190US2	7743
22850	7590 06/03/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			CHANEY, CAROL DIANE	
1940 DUKE ALEXANDR	STREET RIA, VA 22314		ART UNIT	PAPER NUMBER
	,		1745	
			DATE MAILED: 06/03/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)	C		
Office Action Summary		10/050,536	NONOBE ET AL.			
		Examiner	Art Unit			
		Carol Chaney	1745			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication (35 U.S.C. § 133).	on,		
Status	•					
1)⊠	Responsive to communication(s) filed on 17 Ma	<u>arch 2004</u> .				
·—	This action is FINAL . 2b)⊠ This action is non-final.					
3)						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) 1-6 and 9-19 is/are w Claim(s) is/are allowed. Claim(s) 7 and 8 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	ithdrawn from consideration.				
Applicati	on Papers					
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on 18 January 2002 is/are: Applicant may not request that any objection to the correction drawing sheet(s) including the correction of the oath or declaration is objected to by the Example 1.	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s)					
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Election/Restrictions

Applicant's election with traverse of species 2; fuel cell systems which include a pressure reducing device and a relief valve (Claims 7, 8) in Paper No. 20040317 is acknowledged. The traversal is on the ground(s) that an undue burden would not be required if the Restriction Requirement was not issued and all the claims were examined together. This is not found persuasive because the application contains seven separate species of inventions which, irrespective of the required search areas would require seven times the examination effort. The increase in examination effort by a factor of seven would cause an undue burden on the part of the examiner.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

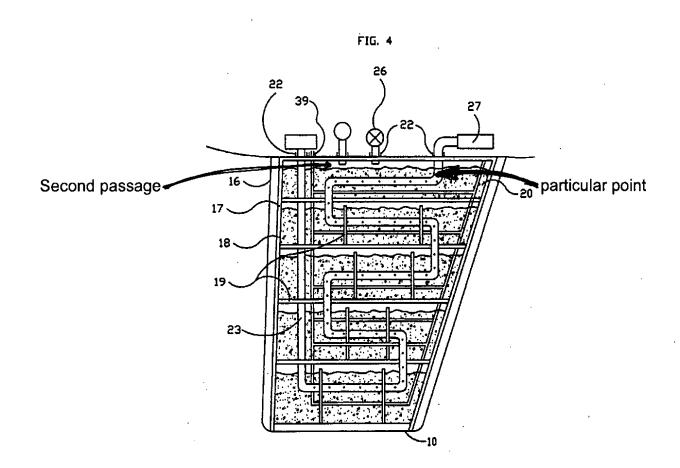
Claim 7 is rejected under 35 U.S.C. 102(b) as being anticipated by Rendina, US Patent 5,445,099.

Rendina discloses an on-board fuel cell system to be installed on a ship. (See Fig. 1, ref. number 12, and column 4, lines 37-40.) As shown in Figure 4, the hydrogen storage system disclosed by Rendina includes a gas distribution line (23) which includes a first passage that connects the outlet of the gas storage device (22) with a

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fuel cell (12). A heater (39) adjusts/reduces the pressure of hydrogen gas discharged from the hydrogen gas storage device since the amount of gaseous hydrogen in the keel is determined by the temperature of the ballast. A second passage is formed in the space at the top of the ballast container.

U.S. Patent Aug. 29, 1995 Sheet 8 of 18 5,445,099



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Pressure relief valve (26) as shown above, is located in the second passage. Thus, the claim is anticipated.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rendina, US Patent 5,445,099

As discussed above, Rendina discloses applicants' invention essentially as claimed, with the exception that Rendina does not specifically mention orientations of the pressure relief valve shown with respect to road surfaces. However, one of ordinary skill in the art will recognize the ships described by Rendina will at least occasionally dock. In such a case, the pressure relief valve discharge will be directed towards the dock. A boat dock is considered to be a road, since it is an open way for vehicles, persons, and animals. Thus, one of ordinary skill in the art will recognize the hydrogen discharge described by Rendina will be directed towards a road surface.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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James, US Patent 6,329,091B1

Choroszylow et al., US Patent 6,266,952 B1

Tsutsumi et al., US Patent 5,229,222 A

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol Chaney whose telephone number is (571) 272-1284. The examiner can normally be reached on Mon - Fri 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Carol Chaney Primary Examiner Page 5

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